IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) An audio conditioning apparatus (190)
for conditioning an audio signal (0) to be output, said audio
conditioning apparatus comprising:
an input for receiving the audio signal;
- a noise characterizing unit (106, 112) arranged to
evaluate for determining a noise level (NM) of environmental noise;
- and ·
- a volume amplification unit (140) arranged to
amplifycoupled to said input for amplifying a volume of the audio
signal (0) by a volume gain (GV), depending in dependence on the
noise level: (NM), characterized in that
- a further noise characterizing unit (110, 116) , (108,114)
is comprised, arranged to evaluate for determining a further noise
level (NL or NH) of the environmental noise in a bass frequency
noise band $\frac{(111)}{}$ or a treble frequency noise band; ${}$ and
- a further amplification unit (150 or 152) is comprised,
arranged to amplifycoupled to said volume amplification unit for
amplifying by a further gain (GB or GT) the amplitude of frequency
components in a bass frequency audio band (202) respectively or a
treble frequency audio band $\frac{(206)}{}$ of the audio signal $\frac{(0)}{}$, in
dependence of the further noise level (NL respectively NH) in the
base or treble frequency band, respectively,
wherein said audio conditioning apparatus further comprises:

- a gain dispatcher unit coupled to said input for

 allocating a maximum allowable gain of the volume amplification

 unit and the further amplification unit on the basis of available headroom for amplification.
 - 2. (Currently Amended) An—The audio conditioning apparatus (190) according to as claimed in claim 1, wherein an upper limit of the bass frequency audio band (202)—substantially lies in the range of 60 to 150 Hz, and wherein a lower limit of the treble frequency audio band substantially lies in the range of 8kHz to 12 kHz.
 - 3. (Currently Amended)

 An The audio conditioning apparatus

 (190) according to as claimed in claim 1, wherein said audio

 conditioning apparatus further comprises:

 ______ a gain consistency unit (124, 126, 128) is comprised

 arranged to yieldcoupled to said noise characterizing unit and said

 further noise characterizing unit for yielding a gain (GV, GB, GT)

consistently varying in time, according to a predetermined

4. (Cancelled).

mathematical criterion.

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5. (Currently Amended)

An The audio conditioning apparatus

(190) according to as claimed in claim 1, wherein the further amplification unit (150 or 152) comprises a shelving filter.

- 6. (Currently Amended) An—The audio conditioning apparatus (190) according to as claimed in claim 1, wherein said audio conditioning apparatus is connectable to a headphone loudspeaker usable for reproduction of the audio signal—(0), and wherein said audio conditioning apparatus further comprises an active noise canceling unit (540) is comprised arranged to for substantially cancel—cancelling environmental noise in a cancellation band of frequencies, the environmental noise being measurable by a microphone—(104).
- 7. (Currently Amended) An—The audio conditioning apparatus (190) according to as claimed in claim 6, wherein said audio conditioning apparatus further comprises a distance measuring device (599) is comprised arranged to measure for measuring a distance between the microphone (104)—and the headphone loudspeaker.
- 8. (Currently Amended) An audio reproduction apparatus, comprising:
- a loudspeaker $\frac{(160)}{}$ for reproduction of the an audio signal $\frac{(0)}{}$;
- an access $\frac{(102)}{}$ to an input audio signal $\frac{(i)}{}$ on which the audio signal $\frac{(0)}{}$ is based; and
- $\frac{an-the}{t}$ audio conditioning apparatus $\frac{(190)}{t}$ as claimed in claim 1.

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- 9. (Currently Amended) A method of conditioning an audio signal (0), comprising the steps of:
- <u>evaluating determining</u> a noise level (NM) of environmental noise; and
- amplifying a volume of the audio signal (0) by a volume gain (CV), depending in dependence on the noise level; (NM), characterized in that
 - determining a further noise level (NL or NH) of the environmental noise in a bass frequency noise band or a treble frequency noise band is evaluated,; and
 - frequency audio band respectively or a treble frequency audio band of the audio signal (O) is amplified by a further gain (GB, GT), in dependence of the further noise level (NL, NH) in the bass frequency noise band or the treble frequency noise band, respectively, wherein said method further comprises the step of:
 - allocating a maximum allowable gain of said amplifying steps on the basis of available headroom for amplification.
 - 10. (Currently Amended) A computer readable medium containing a computer program product enabling a processor to execute the method of as claimed in claim 9.

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